

## **RAW SEQUENCE LISTING**

**Loaded by SCORE, no errors detected.**

Application Serial Number: 09/056,676

Source: 01PE

Date Processed by SCORE: 3/17/08

# ***ENTERED***

<110> APPLICANT: DONG, ZHENG XIN  
 COY, DAVID H.  
 <120> TITLE OF INVENTION: GLP-1 ANALOGUES  
 <130> FILE REFERENCE: 00537/187001  
  
 <140> CURRENT APPLICATION NUMBER: 09856676  
 <141> CURRENT FILING DATE: 2001-07-16  
 <150> PRIOR APPLICATION NUMBER: US/09/206,833A  
 <151> PRIOR FILING DATE: 1998-12-07  
 <160> NUMBER OF SEQ ID NOS: 165  
 <170> SOFTWARE: PatentIn Ver. 2.0  
  
 <210> SEQ ID NO 1  
 <211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus  
 <400> SEQUENCE: 1  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 20 25 30  
  
 <210> SEQ ID NO 2  
 <211> LENGTH: 31  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus  
 <400> SEQUENCE: 2  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
 20 25 30  
  
 <210> SEQ ID NO 3  
 <211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens  
 <400> SEQUENCE: 3  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 20 25 30  
  
 <210> SEQ ID NO 4  
 <211> LENGTH: 31  
 <212> TYPE: PRT  
 <213> ORGANISM: Homo sapiens  
 <400> SEQUENCE: 4  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
 20 25 30  
  
 <210> SEQ ID NO 5

<211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <400> SEQUENCE: 5  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 20 25 30

<210> SEQ ID NO 6  
 <211> LENGTH: 31  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <400> SEQUENCE: 6  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
 20 25 30

<210> SEQ ID NO 7  
 <211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus  
 <400> SEQUENCE: 7  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
 1 5 10 15  
 Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
 20 25 30

<210> SEQ ID NO 8  
 <211> LENGTH: 31  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus

<400> SEQUENCE: 8  
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15  
Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
20 25 30

<210> SEQ ID NO 9  
<211> LENGTH: 30  
<212> TYPE: PRT  
<213> ORGANISM: Artificial Sequence  
<220> FEATURE:  
<223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
<220> FEATURE:  
<221> NAME/KEY: MOD\_RES  
<222> LOCATION: (28)  
<223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine

<400> SEQUENCE: 9  
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg  
20 25 30

<210> SEQ ID NO 10  
<211> LENGTH: 31  
<212> TYPE: PRT  
<213> ORGANISM: Artificial Sequence  
<220> FEATURE:  
<223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
<220> FEATURE:  
<221> NAME/KEY: MOD\_RES  
<222> LOCATION: (28)  
<223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine

<400> SEQUENCE: 10  
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg Gly  
20 25 30

<210> SEQ ID NO 11  
<211> LENGTH: 30  
<212> TYPE: PRT  
<213> ORGANISM: Artificial Sequence  
<220> FEATURE:  
<223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
<220> FEATURE:  
<221> NAME/KEY: MOD\_RES  
<222> LOCATION: (28)  
<223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine

<220> FEATURE:  
<223> OTHER INFORMATION: this sequence has an amidated c-terminus  
<400> SEQUENCE: 11  
His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15  
Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg  
20 25 30

<210> SEQ ID NO 12  
<211> LENGTH: 31  
<212> TYPE: PRT  
<213> ORGANISM: Artificial Sequence  
<220> FEATURE:

<223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (28)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus  
 <400> SEQUENCE: 12  
   His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
       1                  5                  10                  15  
   Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg Gly  
                   20                  25                  30

<210> SEQ ID NO 13  
 <211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (28)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <400> SEQUENCE: 13  
   His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
       1                  5                  10                  15  
   Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg  
                   20                  25                  30

<210> SEQ ID NO 14  
 <211> LENGTH: 31  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (28)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <400> SEQUENCE: 14  
   His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
       1                  5                  10                  15  
   Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg Gly  
                   20                  25                  30

<210> SEQ ID NO 15  
 <211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES

<222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (28)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus  
 <400> SEQUENCE: 15  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
           1                  5                  10                  15  
 Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg  
                   20                  25                  30

<210> SEQ ID NO 16  
 <211> LENGTH: 31  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (20)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (28)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <220> FEATURE:  
 <223> OTHER INFORMATION: this sequence has an amidated c-terminus  
 <400> SEQUENCE: 16  
 His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
           1                  5                  10                  15  
 Gln Ala Ala Xaa Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg Gly  
                   20                  25                  30

<210> SEQ ID NO 17  
 <211> LENGTH: 29  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (27)  
 <223> OTHER INFORMATION: N-epsilon-alkanoyl-lysine  
 <400> SEQUENCE: 17  
 Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly Gln  
           1                  5                  10                  15  
 Ala Ala Arg Glu Phe Ile Ala Trp Leu Val Xaa Gly Arg  
                   20                  25

<210> SEQ ID NO 18  
 <211> LENGTH: 30  
 <212> TYPE: PRT  
 <213> ORGANISM: Artificial Sequence  
 <220> FEATURE:  
 <223> OTHER INFORMATION: Description of Artificial Sequence: Mutagen  
 <220> FEATURE:  
 <221> NAME/KEY: MOD\_RES  
 <222> LOCATION: (27)